

7

With reference to FIGS. 17 and 18, in this embodiment, the outer casing 3 includes two connecting members 33 spaced apart in a front-rear direction. Each connecting member 33 has two connecting ends 330. Each of the casing panels 32 is connected to one of the connecting ends 330 of each of the connecting members 33. Each connecting member 33 includes two pivot arms 331 adjacent to each other in a left-right direction, and a hinge member 332. An outer end of each pivot arm 331 forms one of the connecting ends 330, and an inner end of each pivot arm 331 forms a pivot portion 333. In this embodiment, the connecting end 330 of each pivot arm 331 is formed integrally as one piece with each casing panel 32. Each pivot arm 331 and the corresponding casing panel 32 cooperatively form an L-shaped configuration. The hinge member 332 is connected to the pivot portions 333 of the pivot arms 331. The two casing panels 32 are movable between the folded and unfolded positions through the hinge members 332 of the connecting members 33.

Further, each pivot arm 331 has a first stop face 334 at the inner end thereof and extending transversely relative to a length of the pivot arm 331, and a second stop face 335 transverse to the first stop face 334 and extending from the inner end to the outer end of the pivot arm 331. When the casing panels 32 are folded, the first stop faces 334 of the two pivot arms 331 abut against each other. At this time, the casing panels 32 can no longer rotate toward each other. Through this, the casing panels 32, the backlight modules 4, and the flexible display panel 5 are retained in the folded position, and the flexible display panel 5 is prevented from being excessively folded.

With reference to FIGS. 19 and 20, to rotate the casing panels 32 from the folded position to the unfolded position, the casing panels 32 are rotated in the direction of arrows (I, II), respectively. The casing panels 32 move the backlight modules 4 and the side panel sections 51 of the flexible display panel 5 to rotate until the foldable intermediate section 52 of the flexible display panel 5 is gradually moved to a flat state. When the second stop faces 335 of the pivot arms 331 abut against each other, the casing panels 32 are stopped from continuously rotating. Through this, the casing panels 32, the backlight modules 4, and the flexible display panel 5 are retained in the unfolded position. It should be noted that although the exemplified number of the connecting members 33 is two, it may be one in an alternative embodiment. The effect of rotating the casing panels 32 between the folded and unfolded positions may be similarly achieved. Furthermore, although the connecting end 330 of each pivot arm 331 is formed integrally as one piece with the corresponding casing panel 32 in this embodiment, the connecting end 330 may be connected to the corresponding casing panel 32 through a snap- or screw-fastening method in an alternative embodiment.

From the aforesaid description, through the structural design of the connecting members 31, 33 of the outer casing 3, when the casing panels 32 are rotated to the unfolded position, the two backlight modules 4 are moved by the casing panels 32 to coplanarly cover the backside of the flexible display panel 5. As such, the backlight modules 4 can provide uniform light to the flexible display panel 5, and the flexible display panel 5, in turn, can display uniform brightness or luminosity. Hence, the object of the present invention can be realized.

While the present invention has been described in connection with what are considered the most practical and embodiments, it is understood that this invention is not limited to the disclosed embodiments but is intended to cover various

8

arrangements included within the spirit and scope of the broadest interpretations and equivalent arrangements.

What is claimed is:

1. A display for an electronic device, comprising:

an outer casing including at least one connecting member and two casing panels, said connecting member having two connecting ends respectively disposed at left and right sides thereof, said casing panels being connected respectively to said connecting ends and respectively having bonding faces;

two backlight modules disposed respectively on said bonding faces of said casing panels; and

a flexible display panel including two side panel sections disposed respectively on said backlight modules, and a foldable intermediate section connected between said side panel sections, wherein said casing panels are pivotal relative to each other to move said backlight modules and said flexible display panel to an unfolded position, said backlight modules coplanarly covering a backside of said flexible display panel in said unfolded position.

2. The electronic device as claimed in claim 1, wherein at least one of said casing panels is formed with a recess, and a pair of slide grooves on two opposite sides of said recess, one of said side panel sections being fixed to one of said backlight modules, the other one of said backlight modules being received in said recess, the other one of said side panel sections being slidable relative to the other one of said backlight modules and being connected slidably to said slide grooves.

3. The electronic device as claimed in claim 2, wherein the other one of said backlight modules is connected slidably to said recess.

4. The display as claimed in claim 1, wherein said casing panels are pivotal relative to each other to move said backlight modules and said flexible display panel to a folded position, wherein, when said flexible display panel is folded to extend upward said side panel sections, portions of said backlight modules project downwardly beyond a bottom end of said foldable intermediate section.

5. The display as claimed in claim 4, wherein each of said connecting ends is formed with two pivot holes spaced apart in a front-rear direction, a first positioning hole, and a second positioning hole proximate to an outer side of said first positioning hole, said first and second positioning holes communicating with one of said pivot holes, each of said casing panels including a pivot unit pivoted to said pivot holes in one of said connecting ends, said pivot unit being formed with a mounting groove, and having a retaining element disposed in said mounting groove, and a biasing spring disposed in said mounting groove to bias outwardly said retaining element, said retaining element engaging said first positioning hole in said folded position, and engaging said second positioning hole in said unfolded position.

6. The display as claimed in claim 4, wherein said connecting member includes two pivot arms adjacent to each other in a left-right direction, and a hinge member, and wherein, when said pivot arms lie linearly, an outer end of each of said pivot arms forms one of said connecting ends, and an inner end of each of said pivot arms forms a pivot portion, said hinge member being connected to said pivot portions of said pivot arms.

7. The electronic device as claimed in claim 6, wherein each of said pivot arms has a first stop face at said inner end and extending transversely relative to a length of said pivot arm, and a second stop face transverse to said first stop face and extending from said inner end to said outer end, said first stop faces of said pivot arms abutting against each other in